AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (pending): Process for training in real time a tactile perception of a marksman, in particular of a sport marksman, during the firing of a shot, said marksman exercising a pressure on a trigger of a real or simulation firearm and said pressure triggering the shot when it crosses a predetermined threshold, said process comprising at least the following steps:
- (i) measuring in real time the pressure exercised on said trigger by a finger of said marksman;
- (ii) converting said measured pressure into electric signals representing an instantaneous amplitude of a pressure vector;
- (iii) transforming in real time said electric signals into signals perceptible by a sense of the marksman other than a tactile perception so that the marksman can in real time follow the variation of the pressure exercised on said trigger until the departure of said shot in simultaneity and in synchronism with a tactile perception perceived by said finger.
- 2. (pending): Process according to claim 1, wherein said sense other than the tactile perception is the sense of sight and said step of transforming the electric signals consists in transforming said electric signals, obtained during the conversion step, into light signals representing, proportionately continuously or by moderate intervals, variations of amplitude of the pressure exercised on said trigger.
 - 3. (Pending): Process according to claim 1, wherein said sense other than the tactile

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perception is the sense of hearing and said step of transforming the electric signals consists in

transforming said electric signals, obtained during the conversion step, into audio signals whose

intensity represents, proportionately continuously or by moderate intervals, variations of

amplitude of the pressure exercised on said trigger.

4. (pending): Device for training in real time a tactile perception of a marksman, in

particular of a sport marksman, during the firing of a shot, said marksman exercising a pressure on

a trigger of a real or simulation firearm and said pressure triggering the shot when it crosses a

predetermined threshold, wherein said device includes

(i) a pressure sensor for measuring in real time the pressure exercised by the marksman's

finger on said trigger, comprising (a) a hydraulic circuit including an elastic pressure-receiving

capsule filled with liquid which receives the pressure exercised by the marksman, (b) a fine ductile

tube which is not elastic, and (c) a manometer to which this pressure is transmitted through said

liquid,

(ii) a serial circuit for converting the measured pressure into electric signals comprising (a)

an electric feeder source and (b) a rheostat, said manometer being mechanically coupled to a

cursor hand of said rheostat and making an impedance of said rheostat vary, in such a way as to

generate electric signals representing the instantaneous pressure exercised on said trigger, and

(iii) an organ measuring the instantaneous amplitude of a current in said serial circuit, in

such a way as to transform in real time said electric signals representing the instantaneous pressure

exercised on said trigger into signals perceptible by a sense of the marksman other than a tactile

perception.

5. (pending): Device according to claim 4, wherein said organ transforms said electric

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signals into light signals and displays these light signals, said organ comprising a voltmeter hand

or band, a set of electroluminescent diodes or a video display, so that said light signals are

displayed in a continuously variable way in order to represent the instantaneous variation of said

exercised pressure, or by moderate intervals when the pressure crosses predetermined thresholds.

6. (pending): Device according to claim 5, wherein said firearm is a simulation firearm and

said display is a video display, said device being furthermore equipped with means for generating

a laser bundle or similar towards a target display and with interface circuits which receive said

electric signals, said interface circuits being composed of circuits for handling signals according to

a recorded program,

said recorded program including parameterizable rules taking into account predetermined

disciplines of shooting and the calibre of the simulated firearm, and controlling at least (i)

generation of control signals of said display for setting to scale said target in relation to a distance

target-firearm, (ii) display of simulated impacts on said target whose sizes vary in relation to said

calibre, (iii) a specific timing for each of said disciplines, (iv) display and a chronological

numbering of the impacts, (v) a total numbering of impacts, and (vi) corrections made by said

marksman during aiming.

7. (pending): Device according to claim 4, wherein said organ transforms said electric

signals into audible signals in the acoustic frequency band and comprises at least one

electroacoustic transducer disposed in an ear protection of sound-protection ear muffs carried by

said marksman, in such a way as to emit said audible signals in a continuously variable way to

represent the instantaneous variation of said exercised pressure, or by moderate intervals when the

pressure crosses predetermined thresholds.

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8. (pending): Device according to claim 4, wherein said firearm is a simulation firearm and

said display is a video display, said device being furthermore equipped with means for generating

a laser bundle or similar towards a target display and with interface circuits which receive said

electric signals, said interface circuits being composed of circuits for handling signals according to

a recorded program,

said recorded program including parameterizable rules taking into account predetermined

disciplines of shooting and the calibre of the simulated firearm, and controlling at least (i)

generation of control signals of said display for setting to scale said target in relation to a distance

target-firearm, (ii) display of simulated impacts on said target whose sizes vary in relation to said

calibre, (iii) a specific timing for each of said disciplines, (iv) display and a chronological

numbering of the impacts, (v) a total numbering of impacts, and (vi) corrections made by said

marksman during aiming.

9. (pending): Device according to claim 8, wherein said video display includes a central

zone comprising

(i) a visual display representing in a continuously variable way, according to a vertical axis

of said target, the instantaneous vector of the pressure exercised on said trigger, said visual

indication increasing from top to bottom and reaching the escape pressure at the center of the

target, and

(ii) a display zone representing a transverse acceleration vector (γ) of said firearm in the

moment of the shot from an impact called "laser" towards an impact called "projectile" which

takes into account the effect, on a projectile, of an impulse transverse to its trajectory at the time of

the shot, by measuring the segment covered on said pending target of predetermined time lapses

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that frame this shot,

said displays being under the control of the recorded program in said interface circuits.

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10. (currently amended): Device according to claim § 17, wherein said video display

includes a central zone comprising

(i) a visual display representing in a continuously variable way, according to a vertical axis

of said target, the instantaneous vector of the pressure exercised on said trigger, said visual

indication increasing from top to bottom and reaching the escape pressure at the center of the

target, and

(ii) a display zone representing a transverse acceleration vector (γ) of said firearm in the

moment of the shot from an impact called "laser" towards an impact called "projectile" which

takes into account the effect, on a projectile, of an impulse transverse to its trajectory at the time of

the shot, by measuring the segment covered on said pending target of predetermined time lapses

that frame this shot,

said displays being under the control of the recorded program in said interface circuits.

11. (currently amended): Device according to claim § 20, wherein said video display

includes a central zone comprising

(i) a visual display representing in a continuously variable way, according to a vertical axis

of said target, the instantaneous vector of the pressure exercised on said trigger, said visual

indication increasing from top to bottom and reaching the escape pressure at the center of the

target, and

(ii) a display zone representing a transverse acceleration vector (γ) of said firearm in the

moment of the shot from an impact called "laser" towards an impact called "projectile" which

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takes into account the effect, on a projectile, of an impulse transverse to its trajectory at the time of

the shot, by measuring the segment covered on said pending target of predetermined time lapses

that frame this shot,

said displays being under the control of the recorded program in said interface circuits.

12. (currently amended): Device according to claim § 6, wherein said video display

includes a central zone comprising

(i) a visual display representing in a continuously variable way, according to a vertical axis

of said target, the instantaneous vector of the pressure exercised on said trigger, said visual

indication increasing from top to bottom and reaching the escape pressure at the center of the

target, and

(ii) a display zone representing a transverse acceleration vector (γ) of said firearm in the

moment of the shot from an impact called "laser" towards an impact called "projectile" which

takes into account the effect, on a projectile, of an impulse transverse to its trajectory at the time of

the shot, by measuring the segment covered on said pending target of predetermined time lapses

that frame this shot,

said displays being under the control of the recorded program in said interface circuits.

13. (pending): Device for training in real time a tactile perception of a marksman, in

particular of a sport marksman, during the firing of a shot, said marksman exercising a pressure on

a trigger of a real or simulation firearm and said pressure triggering the shot when it crosses a

predetermined threshold, wherein said device includes

(i) a pressure sensor for measuring the pressure exercised by the marksman's finger on said

trigger, comprising a rack actuated by said trigger and driving a set of gears,

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(ii) a serial circuit comprising (a) an electric feeder source and (b) a rotatable rheostat driven by said set of gears, in such a way as to generate electric signals representing the

instantaneous pressure exercised on said trigger, and

(iii) an organ measuring an instantaneous amplitude of a current in said serial circuit, in

such a way as to transform in real time said electric signals representing the instantaneous pressure

exercised on said trigger into signals perceptible by a sense of the marksman other than a tactile

perception.

14. (pending): Device according to claim 13, wherein said organ transforms said electric

signals into light signals and displays these light signals, said organ comprising a voltmeter hand

or band, a set of electroluminescent diodes or a video display, so that said light signals are

displayed in a continuously variable way in order to represent the instantaneous variation of said

exercised pressure, or by moderate intervals when the pressure crosses predetermined thresholds.

15. (currently amended): Device according to claim 13 18, wherein said organ transforms

said electric signals into light signals and displays these light signals, said organ comprising a

voltmeter hand or band, a set of electroluminescent diodes or a video display, so that said light

signals are displayed in a continuously variable way in order to represent the instantaneous

variation of said exercised pressure, or by moderate intervals when the pressure crosses

predetermined thresholds.

16. (pending): Device according to claim 13, wherein said organ transforms said electric

signals into audible signals in the acoustic frequency band and comprises at least one

electroacoustic transducer disposed in an ear protection of sound-protection ear muffs carried by

said marksman, in such a way as to emit said audible signals in a continuously variable way to

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represent the instantaneous variation of said exercised pressure, or by moderate intervals when the

pressure crosses predetermined thresholds.

17. (pending): Device according to claim 13, wherein said firearm is a simulation firearm

and said display is a video display, said device being furthermore equipped with means for

generating a laser bundle or similar towards a target display and with interface circuits which

receive said electric signals, said interface circuits being composed of circuits for handling signals

according to a recorded program,

said recorded program including parameterizable rules taking into account predetermined

disciplines of shooting and the calibre of the simulated firearm, and controlling at least (i)

generation of control signals of said display for setting to scale said target in relation to a distance

target-firearm, (ii) display of simulated impacts on said target whose sizes vary in relation to said

calibre, (iii) a specific timing for each of said disciplines, (iv) display and a chronological

numbering of the impacts, (v) a total numbering of impacts, and (vi) corrections made by said

marksman during aiming.

18. (pending): Device for training in real time a tactile perception of a marksman, in

particular of a sport marksman, during the firing of a shot, said marksman exercising a pressure on

a trigger of a real or simulation firearm and said pressure triggering the shot when it crosses a

predetermined threshold, wherein said device includes

(i) a pressure or force sensor with piezoelectric effect placed in a glove finger or fixed on

the trigger for measuring in real time the pressure exercised by the finger of said marksman on said

trigger, said sensor with piezoelectric effect generating electric signals whose amplitude is

proportional to the exercised pressure,

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(ii) an electronic amplifier to which said electric signals whose amplitude is proportional to

the exercised pressure are transmitted, an exit of said electronic amplifier generating electric

signals representing the instantaneous pressure exercised on said trigger, and

(iii) an organ measuring an instantaneous amplitude of a current at the exit of said

electronic amplifier, in such a way as to transform in real time said electric signals representing the

instantaneous pressure exercised on said trigger into signals perceptible by a sense of the

marksman other than a tactile perception.

19. (pending): Device according to claim 18, wherein said organ transforms said electric

signals into audible signals in the acoustic frequency band and comprises at least one

electroacoustic transducer disposed in an ear protection of sound-protection ear muffs carried by

said marksman, in such a way as to emit said audible signals in a continuously variable way to

represent the instantaneous variation of said exercised pressure, or by moderate intervals when the

pressure crosses predetermined thresholds.

20. (pending): Device according to claim 18, wherein said firearm is a simulation firearm

and said display is a video display, said device being furthermore equipped with means for

generating a laser bundle or similar towards a target display and with interface circuits which

receive said electric signals, said interface circuits being composed of circuits for handling signals

according to a recorded program,

said recorded program including parameterizable rules taking into account predetermined

disciplines of shooting and the calibre of the simulated firearm, and controlling at least (i)

generation of control signals of said display for setting to scale said target in relation to a distance

target-firearm, (ii) display of simulated impacts on said target whose sizes vary in relation to said

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calibre,(iii) a specific timing for each of said disciplines, (iv) display and a chronological

numbering of the impacts, (v) a total numbering of impacts, and (vi) corrections made by said

marksman during aiming.

21. (pending): Device for training in real time a tactile perception of a marksman, in

particular of a sport marksman, during the firing of a shot, said marksman exercising a pressure on

a trigger of a real or simulation firearm and said pressure triggering the shot when it crosses a

predetermined threshold, wherein said device includes

(i) a pressure sensor for measuring in real time the pressure exercised by the marksman's

finger on said trigger,

(ii) a serial circuit for converting the measured pressure into electric signals representing

the instantaneous pressure exercised on said trigger, and

(iii) an organ measuring the instantaneous amplitude of a current in said serial circuit, in

such a way as to transform in real time said electric signals representing the instantaneous pressure

exercised on said trigger into signals perceptible by a sense of the marksman other than a tactile

perception.